Installation Guide

NXA-SMT43X NXD-430/435 Surface Mount Box

Overview

The NXA-SMT43X NXD-430/435 Surface Mount Box (**FG2262-16**) allows the installation of NXD-430 and NXD-435 panels in existing structures and in locations where a flush installation is not possible.The NXA-SMT43X (FIG. 1) is comprised of four components: the mounting plate, the surface mount box, the side conduit knockout cover, and the cover, as well as an optional wall cover plate.

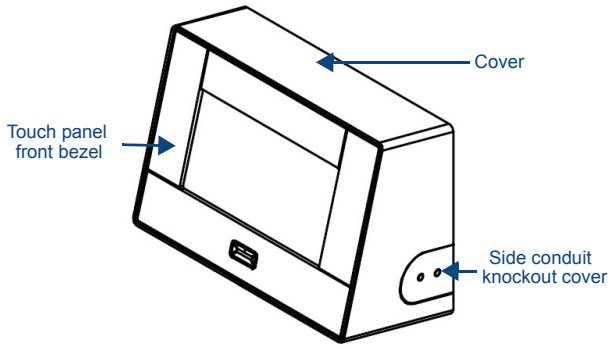

FIG. 1 NXA-SMT43X NXD-430/435 Surface Mount Box

Product Specifications

NXA-SMT43X Specifications	
Dimensions (HWD):	• 4 1/4" x 5 3/4" x 3 1/8" (108 mm x 147 mm x 79 mm)
Weight:	1.80 lbs (0.82 Kg)
Operating Environment:	• 32 - 104°F (0 - 40°C) Max. relative humidity - 85% (non-condensing)
Certifications:	• UL Listed
Included Accessories:	• Screw, #4-40 x .250 (4) (**80-0110**) • Screw, #8-32 x .50 (2) (**80-0146-02**) • Washer, #4, Split (2) (**80-0310**) • Screw, #4-40 x .250, Torx Flat Head, White (2) (**80-5966-04**) • NXA-SMT43X Wall Cover Plate (**53-2266-02**)
Other AMX Equipment:	• NXD-430-BL, Black 4.3" Modero Wall/Flush Mount Touch Panel (**FG2262-01**) • NXD-430-WH, White 4.3" Modero Wall/Flush Mount Touch Panel (**FG2262-02**) • NXD-435-BL, Black 4.3" Modero Wall/Flush Mount Touch Panel (**FG2262-03**) • NXD-435-WH, White 4.3" Modero Wall/Flush Mount Touch Panel (**FG2262-04**)

UL Type 1 Installation Requirements

- Use in clean and dry mechanical rooms.
- Cover during the construction phase to ensure equipment does not get infiltrated with construction dust.
- Use in environments that do not exceed 95% non-condensing humidity.

Preparing the NXD-430/435 for Installation

When shipped, the NXD-430 or NXD-435 touch panel to be installed into the NXA-SMT43X is assembled with a front bezel and back box. (For more information, please refer to the **NXD-430/435 Operation Reference Guide**, available at **www.amx.com**.) Both the bezel and back box must be removed before the panel display can be installed.

To prepare the NXD430/435 for installation:

1. Lift up on the bezel to detach the front bezel.
2. With an NXD-435, carefully disconnect the bezel from the ribbon connector on the touch panel.
3. Remove the two screws at the bottom of the display (FIG. 4) to disconnect the display from the back box. These are plastic screws, and cannot be reused.
4. From the bottom, swing the display out and then down to release it from the two retention prongs at the top of the display.

Assembling the NXA-SMT43X

The NXA-SMT43X has been designed to fit US domestic and a variety of international conduit wall boxes. Use the appropriate holes in the pattern provided for mounting. If mounting to a conduit wall box, remove the rear conduit knock out and assemble the mounting plate to the surface mount box with the two screws provided on the bottom of the unit. (The backing plate may be omitted if mounting the NXA-SMT43X to a conduit box, but is recommended to help maintain proper spacing from the wall.)

Before starting assembly of the NXA-SMT43X, select its installation location. For power and data, this site needs access to an Ethernet connection, either through the wall itself or via a conduit. If the Ethernet cable can be run through a wall, the rear knockout on the surface mount may be removed and the cable run through the rear knockout and the mounting plate. If the Ethernet cable needs to be installed through a conduit, the side conduit knockout may be removed and the conduit connected to the side of the surface mount box.

For added security, it is recommend that additional screws be used if the device is surface mounted with no conduit box. Prior to placing the mounting plate on the mounting surface, use the mounting plate to mark 2 to 4 screw locations, using these locations install appropriate screw inserts. After the screw inserts have been installed, remove the protective adhesive backing from the mounting plate and apply plate to the chosen surface. Make sure that the plate is square and level and lined up with the screw hole locations. Remove the appropriate conduit knockout on the surface mount box at this time. Attach the surface mount box to the mounting plate using the 4 key-way slotted holes and two #4-40 cap head screws supplied.

Installing the Mounting Plate (Adhesive and Screws)

1. For additional strength, remove the protective backing from the adhesive on the mounting plate and attach the mounting plate to the wall. Do NOT attempt to remove and reposition the mounting plate, as this may damage both the adhesive and the wall.
1. If the NXA-SMT43X is to be mounted to drywall and you would like additional screws for a more secure mounting, use the holes on the mounting plate (FIG. 2) to mark locations for plastic screw inserts and install them at this time. (Mounting screws and inserts are not supplied.) Any combination of holes may be used to secure the mounting plate to the wall, but do NOT use the four corner pin slots at each corner of the mounting plate.
2. Use at least 2 mounting screws (not supplied) to secure the mounting plate to the wall.

Installing the Surface Mount Box to the Mounting Plate

1. If connecting Ethernet cable to the touch panel through the wall, remove the rear knockout (FIG. 2) at this time. If connecting Ethernet cable via a conduit, remove the side knockout.

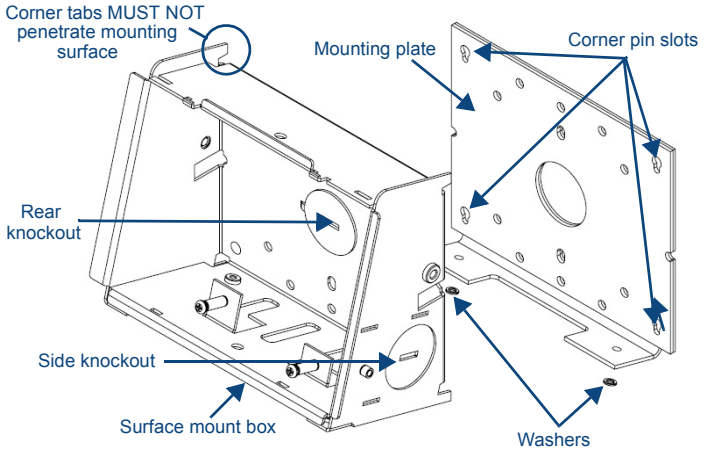

FIG. 2 Attaching the surface mount box to the mounting plate

2. Attach the surface mount box to the mounting plate, using the corner pin slots on the mounting plate.
3. Secure the bottom mounting plate to the surface mount box with two assembly screws. Put one split washer between the screw head and the mounting plate (FIG. 2).
4. For additional security, use the appropriate mounting holes in the back of the surface mount box to insert 2 or more mounting screws (not supplied). The hole pattern in the surface mount box and mounting plate will fit many single and double gang conduit boxes.

NOTE: *Do not over-tighten the mounting screws. The corner tabs on the surface mount box must NOT penetrate the mounting surface.*

Assembling the Side Conduit Knockout Cover

1. If not using a side conduit for the Ethernet connection, assemble the side conduit knockout cover by placing the 3 locating tabs on the knockout cover into the 3 slots on the surface mount box and secure with the supplied screw (FIG. 3).

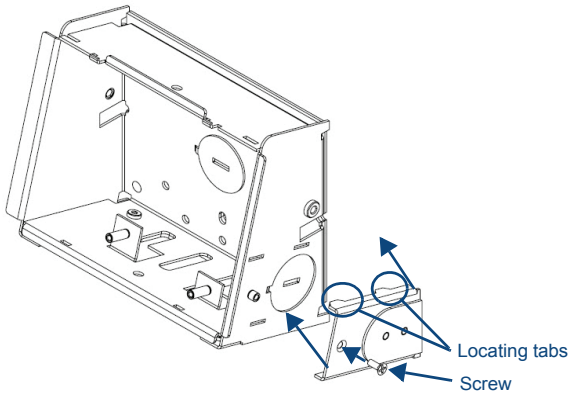

FIG. 3 Side conduit knockout detail

NOTE: *Do not over-tighten the screw, as this can bend the side conduit knockout cover.*

Installing the NXD-430/435 Display Into the NXA-SMT43X

1. Pull enough Ethernet cable through the wall or conduit to allow a connection to the touch panel. Connect the Ethernet cable to the touch panel display.

NOTE: *Do NOT apply power at this time.*

2. The interior of the surface mount box has two slots in the top (FIG. 4). Insert the two tabs at the top of the touch panel display into those slots, and pivot the bottom of the display into the surface mount box.

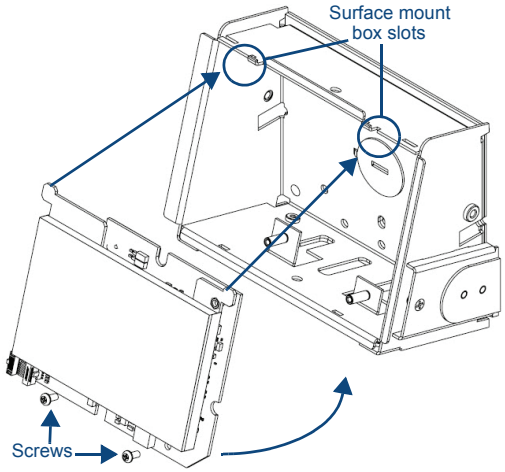

FIG. 4 Inserting the NXD-430/435 display into the NXA-SMT43X

3. At the bottom of the display are two screw holes. Insert the two included cap screws into the holes and carefully tighten. Do not use excessive torque on these screws, as this may damage the display circuit board.

Attaching the Bezel to the Touch Panel Display

When installing an NXD-430/435 into an NXA-SMT43X, the front bezel is installed differently than in a typical installation.

1. With an NXD-435, carefully connect the ribbon cable from the touch panel display to the bezel.
2. Attach the bezel to the surface mount box by placing the assembly tabs on top of the surface mount box into the pockets on the top of the bezel (FIG. 5).
3. Press the lower portion of the bezel toward the display until it snaps into place.

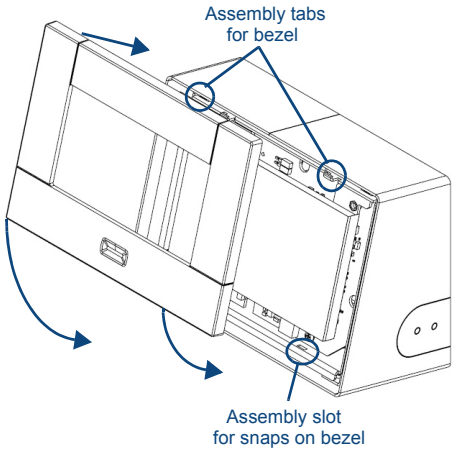

FIG. 5 Attaching the bezel to the touch panel display

Attaching the Cover to the Surface Mount Box

1. Slide the cover over the front of the surface mount box (FIG. 6). Make sure that the slot for the side conduit knockout is on the right bottom of the cover, as it faces toward you.
2. Insert the 2 supplied painted white Torx-head screws into the screw holes at the bottom of the cover and tighten.
3. Connect the Ethernet to the Master and verify that the touch panel receives power and data.

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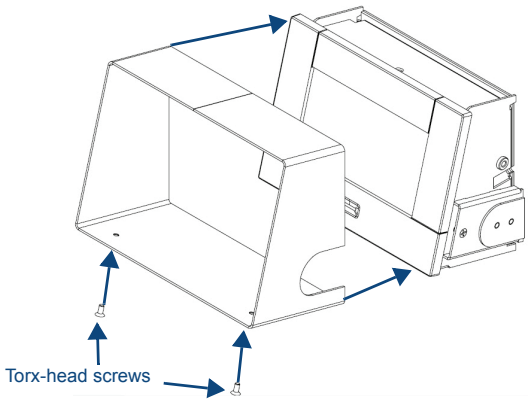

FIG. 6 Attaching the cover to the surface mount box

NXA-SMT43X Wall Cover Plate

The NXA-SMT43X wall cover plate (**53-2266-02**) is a disposable cover shipped with the NXA-SMT43X. In situations where the NXA-SMT43X box is installed before the touch panel assembly, the cover protects the interior of the box from falling dust. When the touch panel is installed, the cover should be removed and disposed of in an environmentally friendly manner.

To install the wall cover plate:

1. Install the mounting plate and surface mount box to the wall (FIG. 2).

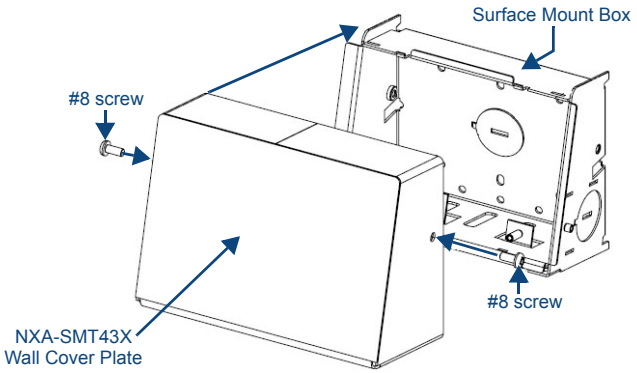

FIG. 7 Installing the NXA-SMT43X wall cover plate to the surface mount box

2. Slide the wall cover plate over the surface mount box and secure it with the two included #8 screws (**80-0146-02**) (FIG. 7).
3. When ready to install the touch panel, remove the wall cover plate (FIG. 8), and install the rest of the NXA-SMT43X as necessary.

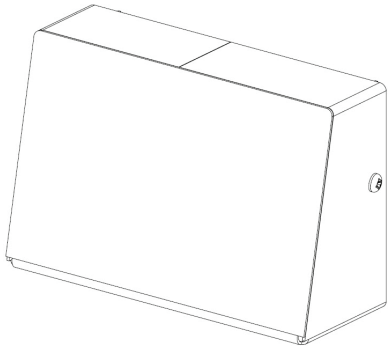

FIG. 8 NXA-SMT43X with installed wall cover plate

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